GROUTS

Master Format #: 03 62 13

EUCO TREMIE GROUT

NON-SHRINK UNDERWATER GROUT

EUCLID CHEMICAL

PACKAGING

50 lb (22.7 kg) bags and pails
Code: 088R 50
Also available in bulk packaging.

APPROXIMATE YIELD

50 lb (22.7 kg) bag: 0.43 ft^3 (0.012 m^3) when mixed with 1.0 gal (3.78 L) of potable water.

CLEAN UP

Clean tools and equipment with water before the material hardens.

SHELF LIFE

9 months in original, unopened package

SPECIFICATIONS AND COMPLIANCES

- CRD-C 621, Corps of Engineers specification for non-shrink grout
- Shows positive expansion when tested in accordance with ASTM Specification C1090, "Standard Test Method for Measuring Changes in Height of Cylindrical Specimens from Hydraulic-Cement Grout"
- ASTM C1107, "Standard Specification for Packaged, Dry, Hydraulic-Cement Grout (non-shrink)"

DESCRIPTION

EUCO TREMIE GROUT is specially designed for use in underwater grouting applications. This highly flowable, cement based, non-shrink grout remains in a cohesive, well blended mix when placed or pumped in off-shore concrete repairs.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Non-shrink for positive, secure support
- Contains an anti-washout additive to ensure cohesiveness underwater
- No added chlorides
- Highly flowable for easy mixing & pumping
- Rapid strength gain for early support

PRIMARY APPLICATIONS

- Underwater grouting
- Pier supports
- Underwater concrete structures
- Off-shore rigging

APPEARANCE

EUCO TREMIE GROUT is a free flowing powder designed to be mixed with water. After mixing and placing, the color may initially appear much darker than the surrounding concrete. While this color will lighten substantially as the concrete cures and dries out, the grout may always appear somewhat darker than the surrounding concrete.

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Test Method	Test Property	Result at 72 °F (22 °C)	Result at 50 °F (10 °C)
ASTM C109M* 2 in (50 mm) cubes	Compressive Strength	1 day . . 3,200 psi (22 MPa) 3 days . . 4,800 psi (33 MPa) 7 days . . 6,100 psi (42 MPa) 28 days . . 9,000 psi (62 MPa)	1 day . . 2,500 psi (17 MPa) 3 days . . 3,900 psi (27 MPa) 7 days . . 5,200 psi (36 MPa) 28 days . . 8,300 psi (57 MPa)
ASTM C1090/ CRD-C 621	Volume Change	3 days . . . . . .+ 0.04 % 7 days . . . . . .+ 0.06 % 14 days . . . . . .+ 0.06 % 28 days . . . . . .+ 0.08 %	3 days . . . . . .+ 0.04 % 14 days . . . . . .+ 0.08 % 28 days . . . . . .+ 0.08 %
ASTM C191	Setting Time	Initial Set . . . . . 5 hours Final Set. . . . . 7 hours	Initial Set . . . . . .12 hours Final Set. . . . . .18 hours

*See ASTM C1107 Section 11.5

DIRECTIONS FOR USE

Surface Preparation: All concrete surfaces should be clean, sound and free of surface scaling and any material which may interfere with bond.
Mixing: Approximately 1.0 gal (3.78L) of water will be required to produce a flowable consistency. EUCO TREMIE GROUT should not be placed at a fluid consistency. Mechanically mix for a minimum of 3 minutes then place the grout. If more flow is needed after mixing at 1.0 gal (3.78L) of water per bag, then add up to 0.2 gal (0.75L)in small increments and mix for an additional 2 minutes after adding water. For placements where the clearance is beyond 5" (12.7 cm), EUCO TREMIE GROUT may be extended with up to 20 lb (9.1 kg) of 3/8" (9.5 mm) pea gravel per 50 lb (22.7 kg) bag.
Placing: After mixing, grout may be pumped into place. EUCO TREMIE GROUT should be placed continuously.
Curing: No special curing is required when product is placed under water. Air exposed surfaces may be coated with a curing compound if hot, dry conditions exist.

PRECAUTIONS/LIMITATIONS

- Store materials in a dry place.
- Do not add admixtures or fluidifiers.
- Keep exposed portions of the grout from freezing until a minimum strength of 4,000 psi (27.6 MPa) is reached.
- The minimum ambient temperature during application is 50 °F (10 °C).
- Rate of strength gain is significantly affected at temperature extremes.
- In all cases, consult the Safety Data Sheet before use.